What's the frequency Roy G. Biv?

Student worksheet

Name	Date	_Per./Mod
1.	Compare the wavelengths and frequencies of the three waves. patterns you notice in their relationship.	Write about any
2.	Which color has the shortest wavelength? Which color has the longest wavelength?	- -
3.	Which color has the highest frequency? Which color has the lowest frequency?	
4.	What is the relationship of the red wavelength to the green?	
	Red to the violet?	
5.	What is the relationship of the red frequency to the green?	
	Red to the violet?	
6.	From your answers to the questions above, name the relationsh wavelength and frequency in wave that travel at the same vel measured in this lab.	-

7.	Remember that velocity = distance / time. What was the velocity of the waves in this lab?		
	*NOTE: the actual velocity of light $c = 2.99 \times 108$ meters per second, but for our purposes in this lab, it will appear only as fast as the Time Keeper is pulling the adding machine tape.		
8.	Multiply the wavelength of the red wave by its frequency. Do this for the blue and green waves also and write the answers below.		
	red		
	green		
	violet		
9.	What do you notice about the results?		
10.	Write an new equation for the velocity of waves in terms of wavelength and frequency instead of distance and time.		